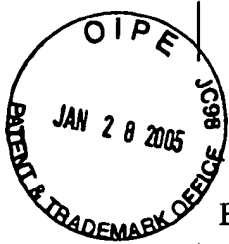


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DATA COMPRESSING APPARATUS AND DATA DECODING APPARATUS

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BACKGROUND OF THE INVENTION

1. Field of the Invention

The present invention relates to a data compressing apparatus and a data decoding apparatus in which a data compressing/decoding method such as LZSS or the like is expanded.

2. Related Background Art

A technique for transmitting data via a network in a short amount of time has been developed ~~progressed~~ in association with the recent spread of the Internet. A data compression method intends to accomplish such an object by reducing the data itself to be transmitted.

In such a compression method, among lossless data compression methods, an origin of a dictionary coding which is most frequently used at present is a Lempel-Ziv encoding method that was created by Abraham Lempel and Jacob Ziv in 1977, and this encoding method ~~it~~ is called a slide dictionary coding, LZ77, or the like.

According to the LZ77, an input character data string which has been encoded before is used as a dictionary, and the longest coincidence with a continuous portion in the input character data string is searched, thereby encoding coincidence information. Since the LZ77 employs a ~~has the~~ null pointer and since the first character which is outputted after the matching can be also used for the next matching, there is no need to output in such a case, and therefore, ~~so that~~ there is only a slight redundancy. After that, as a method of improving ~~it~~

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25 after the matching can be also used for the next matching, there is no need to output in such a case, and therefore, there is only a slight redundancy. After that, as a method of improving this encoding